WEATHER STATION

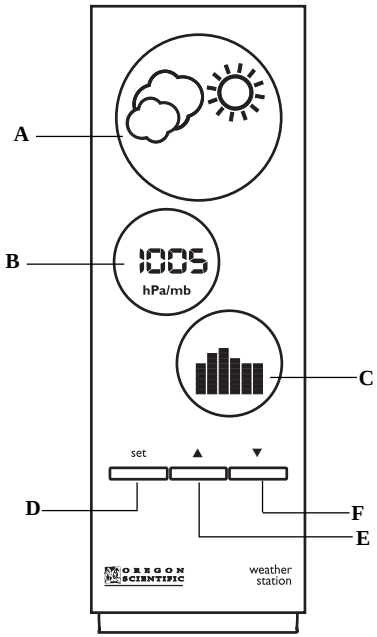
MODEL: BHB613

USER'S MANUAL

INTRODUCTION

Thank you for purchasing the Oregon Scientific weather station. This weather station has been designed specifically with performance and ease of use in mind. As with all Oregon Scientific products, this barometer is made to the highest quality standards using precision electronic components and should give you many years of trouble free use. Please note that the accuracy of the weather forecasting is about 70 ~ 75 percent.

FEATURES & KEY CONFIGURATION



A. WEATHER FORECAST WINDOW

Weather forecast indication shows sunny, slightly cloudy, cloudy and rainy.

B. PRESSURE READING WINDOW

Displays the current pressure reading.

C. PRESSURE TREND CHART WINDOW

D. [SET] button

To set the altitude

E. [UP] button

Increases the value of setting by 10

F. [DOWN] button

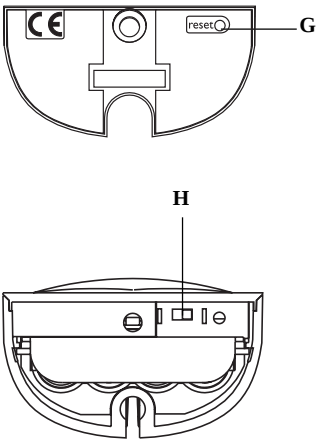
Decreases the value of setting by 10

G. [RESET] BUTTON

Returns all settings to default value and erases all memories.

H. [hPa/mb-inHg] Slide switch

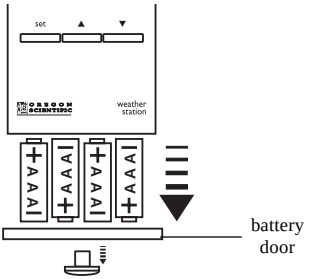
Selects between hPa/mb or inHg display unit.



BATTERT INSTALLATION

The unit uses four UM-4 "AAA" size batteries. If the " ⌀ " indicator appears, removes the exhausted batteries and follow these steps to replace the batteries:

1. Unscrew the battery door at the bottom of the unit.
2. Remove the battery cover and insert the batteries as indicated by the polarity symbols (+ and -) marked inside the battery compartment.
3. Replace the battery door and fasten the screw.



Note: After replacing the batteries, the whole display will be turned on for about 3 seconds and then show the following:

a. Weather forecast shows slightly cloudy (a sun with the cloud indicator)
b. Pressure trend shows steady.
c. Barometric pressure shows the current reading.

The unit takes about 24 hours to store the barometric pressure date. Until that time has elapsed, the pressure trend and weather forecast symbols may not reflect actual weather forecast for your area.

HOW TO READ THE ILLUSTRATED WEATHER FORECAST SYMBOLS

Your weather station detects barometric pressure changes and the LCD displays the illustsrated weather symbols which indicating the weather forecast for 12 or 24 hours ahead, for an area with a radius of about 18-30 miles.

Indicator displays on the unit				
Forecas	Sunny	Slightly Cloudy	Cloudy	Rainy

Important:

1. The accuracy of weather forecasting when using pressure trend alone is about 70 to 75 percent and, therefore, we cannot be held responsible for any inconveniences caused by an inaccurate weather forecast.
2. The weather forecasts symbols reflect forecast 12-24 hours in the future and not the current situation..
3. A ' Sunny ' forecast reflects fine clear weather.

HOW TO READ THE PRESSURE TREND CHART

Stored memory of the barometric pressure changes are displayed on the chart, in 5 steps indicating the pressure 1,3,6,12 and 24 hours ago. This chart is plotted by comparing the past barometric pressure to the present pressure.

This gives you the pressure trend over the last 24 hours. The weather will be getting better (worse) if this chart shows the bar marks moving up (down) towards the present time.

Important:

It is only possible to measure the barometric pressure trend properly if your barometer remains at the same altitude.

When moving around at different altitude within a short time period, the air pressure changes. The barometric pressure reading is precise only if the barometer has remained at a constant altitude for 24 hours.

However, please note again the accuracy of a weather forecast based on the barometric pressure reading. It is considered to be about 70-75%.

HOW TO SET THE ALTITUDE

1. Press and hold the [SET] button for 2 seconds to set the altitude. The '*ALT* ' indicator will turn on with the altitude setting flashing (display in meter). The accuracy of a general pressure-based weather forecast is about 70% to 75%.

   Increase/decrease the altitude in steps of 10 meter by pressing [▲] or [▼] button.
2. Press the [SET] button again to set the altitude. At this time the previous pressure display will reappear. If the altitude has been changed, the ' *ALT* ' indicator flashing (about 15 minutes) until a new sampling takes place and the pressure reading is then compensated with the new altitude.
3. Press the [SET] button 6 times to confirm the setting you just entered or wait for one minute for automatic exit.

Note: For monitoring the local barometric pressure reading, the user needs to select the 0 meter (preset value) for the altitude setting.

For monitoring the Sea Level barometric pressure reading at certain altitude, the user needs to select the local altitude (-100 to 2500 meters i.e. -328 to 8223 feet) for the altitude setting. The BHB-613 requires entry of elevation in meters not feet. Therefore, to convert feet to meters, multiply feet by 0.3048.

To determine your location elevation, please either contact your local library, TV/ radio weather forecaster, or via Intenet at www.worldatlas.com/aatals/infopage/elevation.htm.

HOW TO SELECT THE BAR OR LINE CHART FOR THE PRESSURE TREND

- To get the line chart display, press the **[RESET]** button at the bottom of the unit while pressing and holding the **[SET]** key in the bar chart display.

- To get the bar chart display, press the **[RESET]** button once.

Note: Either action will reset the unit and the previous readings/ setting will be lost.

HOW TO SELECT THE PRESSURE UNITS OF MEASURE

The switch in the battery compartment of the weather station selects between hPa/mb and inHg. To select hPa/mb, set the switch to hPa/mb. To select inHg, set the switch to inHg.

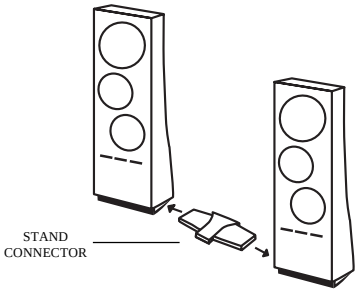
LOW BATTERY SIGNAL INDICATION

If the voltage of the batteries becomes low, the " " indicator will be displayed. Replace the batteries when the " " indicator is displayed.

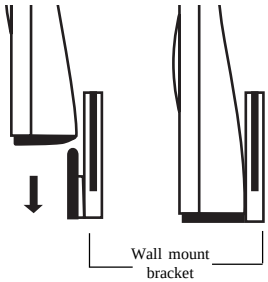
TABLE STANDING OR WALL MOUNTING

Table Standing :

Your unit comes with stand connector for connecting it to the other modular units.

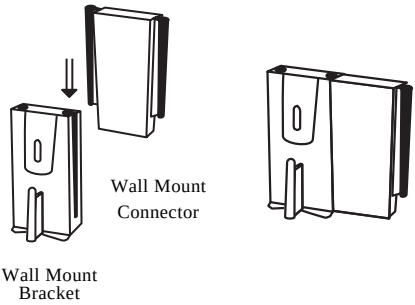


Wall-Mounting:

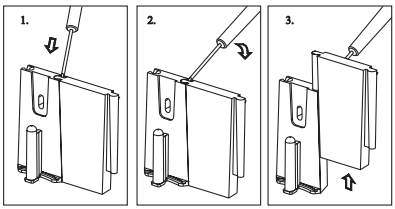


Connector:

Use wall-mount connector to align with other wall-mount bracket if necessary.



Un-install the brackets:



MAINTENANCE

When handled properly, this unit is engineered to give you years of satisfactory service. Here are a few product care instructions:

1. Do not immerse the unit in water. If the unit comes in contact with water, dry it immediately with a soft lint-free cloth.

2. Do not clean the unit with abrasive or corrosive materials. Abrasive cleaning agents may scratch the plastic parts and corrode the electronic circuit.

3. Do not subject the unit to excessive: force, shock, dust, temperature, or humidity. Such treatment may result in malfunction, a shorter electronic life span, damaged batteries, or distorted parts.

4. Do not tamper with the unit's internal components. Doing so will terminate the unit's warranty and may cause damage. The unit contains no user-serviceable parts.

5. Only use new batteries as specified in this instruction manual. Do not mix new and old batteries as the old batteries may leak.

6. Read this instruction manual thoroughly before operating the unit.

SPECIFICATION

Pressure measuring range	:	794 to 1050 hPa/mb (24.45 to 31.00 inHg)
Altitude compensation for barometric pressure reading	:	-100 to 2500 meters (-328 to 8223 feet)
Pressure display resolution	:	1 hPa/mb (0.03inHg)
Pressure sampling cycle	:	15 minutes
Power source	:	Four pcs. UM-4 or “AAA” size batteries
Battery life	:	9 month
Dimension	:	6.64" x 2.32" x 1.28" (H xWxD)
Weight	:	4.80 ounces (without battery)

CAUTION

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CUSTOMER ASSISTANCE

Should you require assistance regarding this product and its operation, please contact our customer care department at 800-853-8883 or via email at helpme@oscientific.com.

WARRANTY

This product is warranted to be free of manufacturing defects for a period of 1 year from date of retail purchase. Defective product should be directed to the place of retail purchase for exchange. Should this not be possible, contact our customer care department for assistance and a return material authorization. No returns may be made without a return authorization. Please retail your retail receipt as you may be asked to provide a copy of it for proff of date purchased.

This warranty does not cover product subjected to abuse, misuse, accidental damage or tampering.

RADIO CONTROLLED ALARM CLOCK

MODEL : BHM-612A

USER'S MANUAL

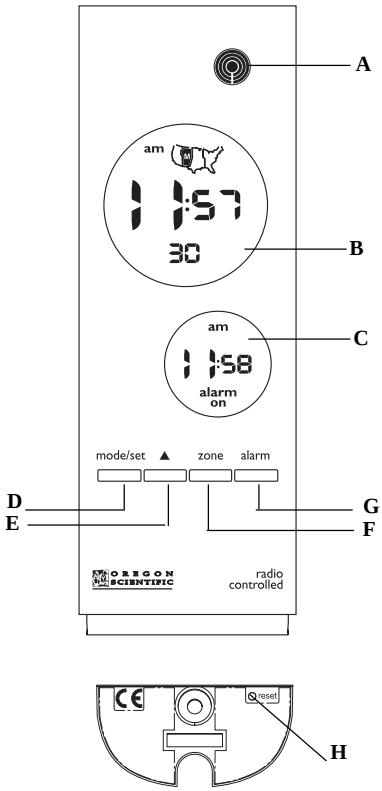
INTRODUCTION

Congratulations on purchasing the BHM-612A Radio Controlled Alarm Clock.

A smart-looking and easy-to-operate timepiece, the BHM-612A is designed to automatically synchronize the current time and date with the U.S. Atomic Clock.

The BHM-612A is also equipped with a daily alarm clock plus date and multilingual weekday display.

FEATURES & KEY CONFIGURATION



A **RF SIGNAL INDICATOR**
- Indicates the signal-receiving status of the unit

B **MAIN WINDOW**
- Displays the current time with seconds or day-of-the week

C **SECONDARY WINDOW**
- Displays the alarm time and its status or date

D **[MODE/SET]** button
- Changes between seconds and weekday display (Main window) or between calendar and alarm clock display (secondary window)
- Holds to activate the clock setting mode

E **[UP]** button
- Increases the value of a setting by one unit

F **[ZONE]** button
- Press to sequence through the 4 U.S. time-zones: Pacific, Mountain, Central or Eastern.

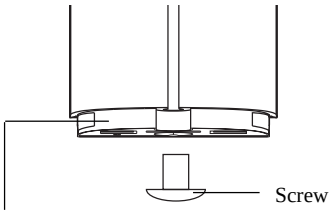
G **[ALARM]** button
- Changes the display and operating status of the alarm clock

H **[RESET]** button
- Returns all settings to the factory set default values

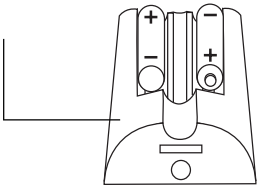
BATTERY INSTALLATION

1. Open the battery compartment by removing the screw at the bottom of the unit.
2. Pull out the battery holder and insert two AAA-sized (UM-4) batteries in accordance with the polarities shown.
3. Slide back the battery holder into the compartment and fasten the screw.
4. Press **RESET** with a blunt stylus.
5. When the low battery indicator [ ] appears on the display, follow the above procedures to replace the unit with new batteries.

Note *The unit will automatically search for the radio signal when batteries are first installed. When the BHM-612A is new and just out of the box, allow up to 72 hours for the unit to receive the US Atomic Clock signal. To facilitate reception, place the BHM-612A on a window sill away from other signal emitting equipment such as TVs, radios, PCs and microwaves. Stronges signal reception is between midnight and 4AM.*



Battery
Holder



DISPLAY MODES

In normal display, the current time, with seconds, will be displayed in the main window and the date will be displayed in the secondary window.

To display the weekday in the main window, press **[MODE / SET]** once. Press the button again to display seconds.

To display the alarm time in the secondary window, press **[ALARM]** once. Press **[MODE / SET]** to display the date.

ABOUT RECEPTION OF RADIO SIGNAL

The BHM-612A is designed to automatically synchronize its current time and date when within range of the U.S. Atomic Clock.

When the unit is within range, its radio-control mechanism will override all manual settings. The benefit of a RF controlled clock is sustained accuracy without the need of manual adjustment.

SIgnal Search Mode.	●
Signal Reception Mode	◯ ◯ ◯ ◯
No Signal Received	●

Complete signal reception generally takes about 2 to 10 minutes, depending on the strength of the radio signal. When the reception is completed, the signal display will be stable. After that, the periodical scanning will only take a few seconds.

For better reception of radio signals, place the clock away from metal objects and electrical appliances to minimize interference.

HOW TO ENABLE OR DISABLE AUTO-RECEPTION

To disable the automatic signal reception feature and cause the BHM-612A to operate as a quartz clock, hold down **[ZONE]** for three seconds.

To enable the feature again, hold down the **[UP]** button for three seconds. The RF signal display will start scanning to initiate reception automatically.

HOW TO SET THE CALENDAR CLOCK MANUALLY

When the current time is displayed:

- Press **[MODE / SET]** for two seconds. Hours digits will flash.
- Set the hour using **[UP]**.
- Press **[MODE / SET]**. Minutes digits will flash.
- Set the minutes using **[UP]**.
- Press **[MODE / SET]**.
- Follow the same pattern to enter year, month, day and the display language for the weekday. You can choose among **E (English)**, **F (French)** and **S (Spanish)**.
- Press **[MODE / SET]** to save the changes and exit.

If changes are made during the process, the seconds of the clock will reset and start from zero. The unit will also save all changes and return to normal display automatically after the unit has been left idle for a minute.

HOW TO SET AND USE THE ALARM

To set the alarm time:

1. Press **[ALARM]** to display the alarm time.
2. Press and hold **[ALARM]** for two seconds. Hours digits will flash.
3. Set the hours using **[UP]**.
4. Press **[ALARM]**. Minutes digits will flash.
5. Set the minutes using **[UP]**.
6. Press **[ALARM]** to save and exit. The alarm clock will be activated automatically during the setting procedure.

To activate or deactivate the alarm during normal display.

- Press **[ALARM]** to display the alarm time.
- Press **[ALARM]** to change the status of the alarm. The respective indicator will appear.

When the alarm goes off, the alarm sound will gradually increase in volume and speed. The alarm will continue to sound for approximately two minutes unless interrupted when any button is pressed. If the alarm is not interrupted, after 2 minutes the alarm will silence itself and reactivate after approximately eight minutes.

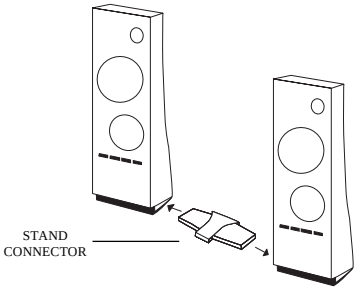
THE RESET BUTTON

The **[RESET]** button is used to clear all user selected or programmed settings and to cause the settings to return to their factory set defalut setting. Use a blunt stylus to hold down the button.

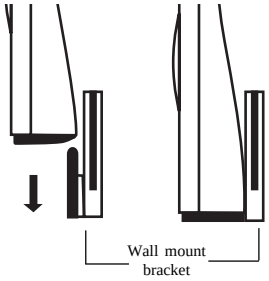
TABLE-STANDING OR WALL-MOUNTING

Table-Standing:

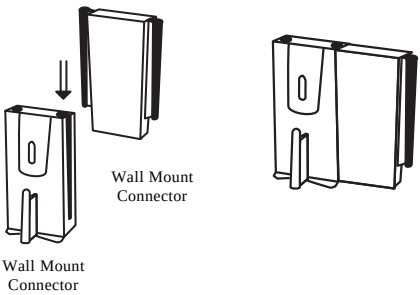
The BHM612A unit comes with a stand connector for connecting it to other modular units in the same series.



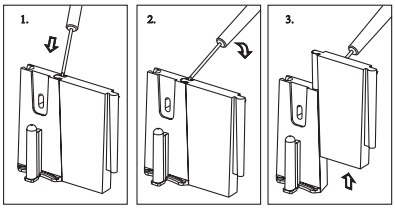
Wall-Mounting:



Connector:
Use wall-mount connector to align with other wall-mount bracket if neccessary.



Un-install the brackets:



MAINTENANCE

When handled properly, this unit is engineered to give you years of satisfactory service. Here are a few product care instructions:

1. Do not immerse the unit in water. If the unit comes in contact with water, dry it immediately with a soft lint-free cloth.
2. Do not clean the unit with abrasive or corrosive materials. Abrasive cleaning agents may scratch the plastic parts and corrode the electronic circuit.
3. Do not subject the unit to excessive: force, shock, dust, temperature, or humidity. Such treatment may result in malfunction, a shorter electronic life span, damaged batteries, or distorted parts.
4. Do not tamper with the unit's internal components. Doing so will terminate the unit's warranty and may cause damage. The unit contains no user-serviceable parts.
5. Only use new batteries as specified in this instruction manual. Do not mix new and old batteries as the old batteries may leak.
6. Read this instruction manual thoroughly before operating the unit.

SPECIFICATIONS

Operating Temperature	:	32° F to 104° F
Radio Control	:	Auto synchronizes current time and date by Radio signal generated from the U.S. Atomic Clock
Calender	:	Weekday in English /French/ Spanish; Current month / day format
Clock Time	:	12-hour format
Alarm Time Duration	:	2 minutes
SNOOZE Time Duration	:	8-9mins
Accuracy	:	+/-0.5 second/day(when operating in quartz clock mode)
Battery Type	:	Two (2) UM-4 or "AAA" size
Unit Dimension	:	6.64" x 2.32" x 1.28" (H xW X D)
Unit Weight	:	5.53 oz

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This warranty does not cover product subjected to abuse, misuse, accidental damage or tampering.

MULTI-CHANNEL IN-OUT CABLEFREE THERMO-HYGROMETER

MODEL: BHGR618

USER'S MANUAL

INTRODUCTION

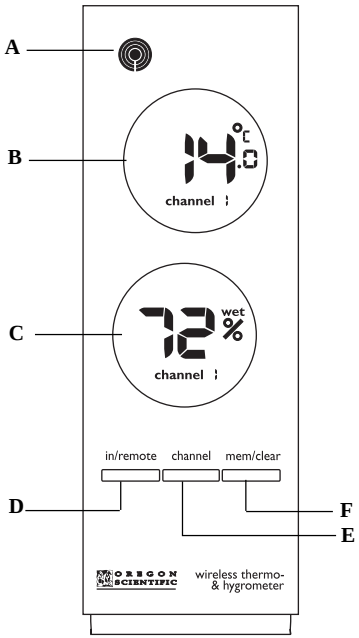
Congratulations on your purchase of the Multi-Channel In-Out Thermometer / Hygrometer (BHGR618) with a 433MHz cable-free thermo-hygro sensor.

Enclosed with this package is one (1) main display unit and one (1) cable-free remote thermo-hygro sensor unit.

The main unit has an LCD that shows recordings for indoor and outdoor temperatures, humidity, maximum and minimum recordings. The unit supports up to three 433MHz remote thermo-sensors or thermo-hygro sensors.

No wire installation is required between the main and remote units. As the BHGR618 operates at 433MHz, it can be used in the U.S. and most places in Continental Europe.

FEATURES & KEY CONFIGURATION : MAIN UNIT



A RF SIGNAL INDICATOR
- Indicates the signal-receiving status of the unit

B Upper window
- Displays the temperature data

C Lower window
- Displays the humidity data

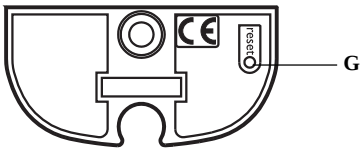
D [IN / REMOTE]
- Selects between the main-unit display and a selected remote unit
- Activates search mode

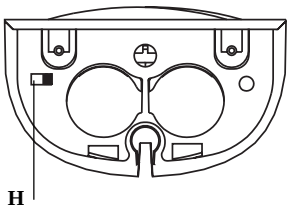
E [CHANNEL] button
- Selects among different channels
- Activates remote sensor scanning mode

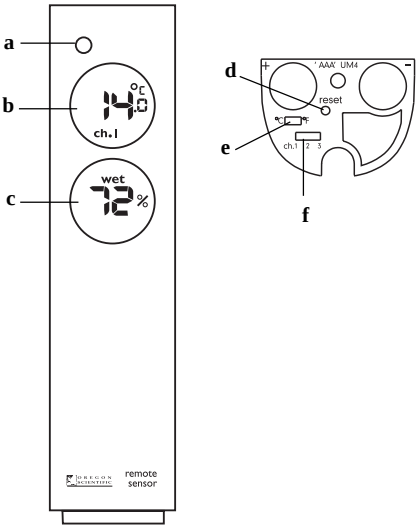
F [MEM / CLEAR] button
- Recalls the maximum or minimum temperature and humidity readings
- Clears the maximum and minimum temperature and humidity memory of remote sensor channels or the main unit display

G [RESET]
- Returns all settings to default values and erases all memories

H [°C/°F] slide switch
- Selects between degree Centigrade (°C) and Fahrenheit (°F)







FEATURES: REMOTE THERMO-HYGRO SENSOR (Model BHGR 228)

a **LED indicator**
Flashes when the remote unit transmits a reading

b **Upper window**
Displays temperature data

c **Lower window**
Displays humidity data

d **[RESET]**
Returns all settings to default values

e **°C/°F slide switch**
Selects between Centigrade (°C) and Fahrenheit (°F)

f **Channel slide switch**
Designates the remote unit Channel 1, Channel 2 or Channel 3

BEFORE YOU BEGIN

To ensure proper functioning of the BHGR618 follow this setup procedure.

For best operation:

1. Assign different channels to different remote units.
2. Insert batteries in remote units before doing so for the main unit (see instructions for battery installation).
3. Place the main unit as close as possible to the remote unit, reset the main unit after installing batteries. This will ensure easier synchronization between the transmission and reception of signals.
4. Position the remote unit and main unit within effective transmission range, which, in usual circumstances, is 65 to 100 feet.

***Note** that the effective range is vastly affected by the building materials and where the main and remote units are positioned. Try various set-ups for best result.*

Though the remote units are weather resistant, they should be placed away from direct sunlight, rain or snow.

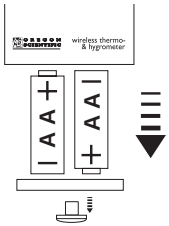
BATTERY AND CHANNEL INSTALLATION: REMOTE UNIT

The remote thermo-hygro sensor unit uses two (2) UM-4 or "AAA" size alkaline batteries.

Follow these steps to install / replace batteries:

1. Loosen the screw on the battery door.
2. Select the channel number on the **CHANNEL** slide switch.
3. Select the temperature display unit on the °C/°F slide switch.
4. Insert the batteries strictly according to the polarities shown therein.
5. Replace the battery door and secure its screws.

   Replace the batteries when the low-battery indicator of the particular channel lights up on the main unit. (Repeat the steps described in section ("BEFORE YOU BEGIN")



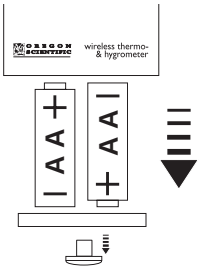
***Note** that once a channel is assigned to a remote unit, you can only change it by removing the batteries or resetting the unit.*

BATTERY INSTALLATION: MAIN UNIT

The main unit uses two (2) UM-3 or "AA" size alkaline batteries.

Follow these steps to install / replace batteries:

1. Remove the screw to open the battery door.
2. Insert the batteries strictly according to the polarities shown therein.
3. Select the temperature display unit on the °C / °F slide switch.
4. Replace the battery door and fasten the screw. Replace the batteries when the low-battery indicator of the indoor temperature lights up (Repeat the steps described in section "BEFORE YOU BEGIN")



If not disposed of properly, batteries can be harmful. Protect the environment by taking exhausted batteries to authorized disposal stations.

GETTING STARTED

Once batteries are placed in a given remote sensor unit, it will start transmitting information at 40-second intervals.

Also, for approximately a 3-minute duration, the main unit will automatically search for signals once batteries are installed. Upon successful reception, the individual channel temperature reading will be displayed on the upper window and the respective humidity reading on the lower window. The main unit will automatically update its readings at about 40-second intervals.

If no signals are received, blanks " --- " will be displayed and the RF signal indicator will not show.

To force a signal search:

◊ Press and hold **IN/REMOTE** for 2-seconds to enforce a 3-minute search.

This is useful in synchronizing the transmission and reception of the remote and main units.

Repeat this step whenever you find discrepancies between the reading shown on the main unit and that on the respective remote unit.

HOW TO CHECK REMOTE AND INDOOR TEMPERATURES & HUMIDITIES

Display of readings from a remote sensor or the main unit is a one-step procedure. The remote sensor channel or the main unit display is indicated under the readings.

To display indoor temperature & humidity :

◊ Press **IN / REMOTE** until "in" is displayed under the readings.

To display remote temperature & humidity :

◊ Press **CHANNEL** until the appropriate remote sensor channel is displayed under the readings.

If no readings are received from one particular channel for more than 15 minutes, blanks " --- " will be displayed until further readings are successfully searched. Check the remote sensor to ensure that it is secure and that the correct channel has been selected. Optionally, press and hold **IN/REMOTE** for 2-seconds to enforce a search.

MAXIMUM AND MINIMUM TEMPERATURE AND HUMIDITY

The maximum and minimum recorded temperature and humidity readings will automatically be stored in the memory.

To display the maximum and minimum display memory:

1. Select the channel to be checked.
2. Press **[MEM/CLEAR]** once to display the maximum reading and again the minimum reading. The respective indicators, MAX or MIN will be displayed.

To clear the memory:

• Press and hold **[MEM/CLEAR]** for 2-seconds.

If you press **[MEM/CLEAR]** now, the maximum and minimum reading will have the same values as the current ones until different readings are recorded.

NOTE ON °C AND °F

The unit of temperature display is selected on the °C/°F slide switch. Select °C for Centigrade or °F for Fahrenheit.

Note that the remote temperature display on the main unit is dominated by the selection on the °C/°F slide switch of the main unit. Whatever the display units of the remote sensors are, they will be automatically converted to the chosen one of the main unit.

COMFORT LEVEL INDICATORS

The comfort level indicators COM, WET or DRY will tell you if the curent environment is comfortable, too wet or too dry.

The comfort indicators will appear on the display of the main and remote units when the following conditions are satisfied:

Indicator displays on the unit	Temperature Range	Humidity Range	Shows that the Current Environment
COM	20°C to 25°C (68°F to 77°F)	40%RH-70%RH	Ideal range for both relative humidity and temperature
WET	-5°C -+ 50°C (23°F - 122°F)	OVER-70%RH	Contains excess moisture.
DRY	-5°C -+ 50°C (23°F - 122°F)	Below 70%RH	Contains inadequate moisture
No Indicator	Less than 20°C(68°F) or More than 25°C (77°F)	40%RH to 70%RH	No comment

HOW TO READ THE RF SIGNAL INDICATOR

The RF signal indicator shows the signal-receiving status of the main unit. There are three possible forms:

The unit is in searching mode.	
Transmission data are securely registered.	
No signals.	

REMOTE SENSOR SCANNING

The unit can be set to automatically scan and display readings from the remote sensors. When the remote-sensor mode is active, the display will show the readings from one channel for about 4-second and then proceed to the next channel display.

To activate the remote-sensor scanning mode:

◊ Press and hold **CHANNEL** for 2-seconds.

To deactivate the remote-sensor scanning mode:

◊ Press any button.

DISCONNECTED SIGNALS

If without obvious reasons the display for a particular channel goes blank, press[**IN/REMOTE]** to enforce an immediate search.

If that fails, check:

1. The remote unit of that channel is still in place.
2. The batteries of both the remote unit and main unit. Replace as necessary.

Note that when the temperature falls below freezing point, the batteries of outdoor units will freeze, lowering their voltage supply and the effective range.

3. The transmission is within range and path is clear of obstacles and interference. Shorten the distance when necessary.

TRANSMISSION COLLISION

Signals from other household devices, such as door bells, home security systems and entry controls, may interfere with those of this product and cause temporarily reception failure. This is normal and does not affect the general performance of the product. The transmission and reception of readings will resume once the interference recedes.

LOW BATTERY WARNING

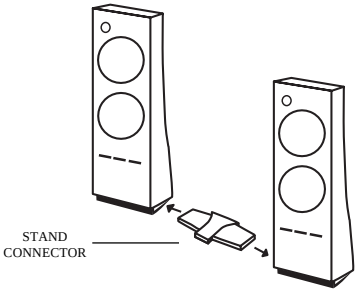
When it is time to replace batteries, the respective low-battery indicator will show up when the respective channel is selected. The battery level of the main unit will be shown on the indoor temperature when it is running low.

THE RESET BUTTON

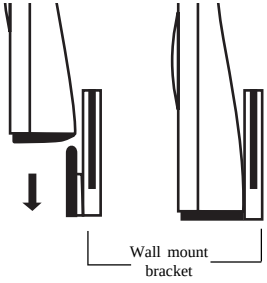
To clear user-defined setting or if the unit is operating in an unfavorable way or malfunctioning use a blunt stylus to hold down the RESET button. All settings will return to the factory set defaults.

TABLE STANDING OR WALL MOUNTING

Table-Standing :
Your unit comes with stand connector for connecting it to other modular units.

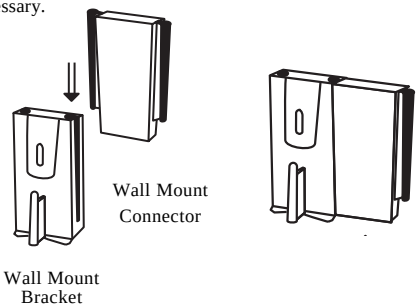


Wall-mounting:

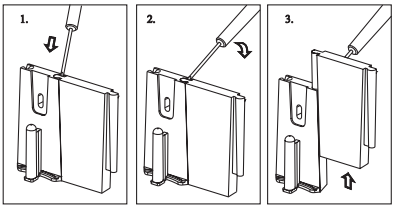


Connector:

Use wall-mount connector to align with other wall-mount bracket if necessary.



Un-install the brackets:



MAINTENANCE

When handled properly, this unit is engineered to give you years of satisfactory service. Here are a few product care instructions:

1. Do not immerse the unit in water. If the unit comes in contact with water, dry it immediately with a soft lint-free cloth.
2. Do not clean the unit with abrasive or corrosive materials. Abrasive cleaning agents may scratch the plastic parts and corrode the electronic circuit.
3. Do not subject the unit to excessive: force, shock, dust, temperature, or humidity. Such treatment may result in malfunction, a shorter electronic life span, damaged batteries, or distorted parts.
4. Do not tamper with the unit's internal components. Doing so will terminate the unit's warranty and may cause damage. The unit contains no user-serviceable parts.
5. Only use new batteries as specified in this instruction manual. Do not mix new and old batteries as the old batteries may leak.
6. Read this instruction manual thoroughly before operating the unit.

SPECIFICATIONS

Main unit

Proposed operating range	:	- 5.0° C to 50.0°C (23.0° F to 122.0°F)
Temperature resolution	:	0.1° C to (0.2°F)
Relative Humidity	:	25% RH to 95% RH Operating range

Remote thermo-hygro unit

Proposed operating range	:	-20.0° C to 60.0°C (-4.0° F to 140.0°F)
Temperature resolution	:	0.1° C to (0.2°F)
Relative Humidity	:	25% RH to 95% RH Operating range

General

RF Transmission Frequency	:	433 MHz
No. of Remote unit	:	Maximum of 3
RF Transmission Range	:	100 feet
Temperature compensation	:	0.1° C to (0.2°F)
Temperature sensing cycle	:	around 40 seconds

Power

Main unit	:	2 pcs UM-3 or "AA" 1.5V alkaline battery
Remote sensing unit	:	2 pcs UM-4 or "AAA" 1.5V alkaline battery

Weight

Main unit	:	4.47 ounces
Remote sensing unit	:	3.17 ounces

Dimensions

Main unit(H xW xD)	:	6.54" x 2.28" x 1.26"
Remote sensing unit	:	6.54" x 1.57" x 1.33"

NOTE ON COMPLIANCE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operations.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC :

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

☐ Reorient or relocate the receiving antenna.

☐ Increase the separation between the equipment and receiver.

☐ Connect the equipment into an outlet on a circuit different from that of the receiver which the receiver is needed.

☐ Consult the dealer of an experienced radio/TV technician for help.

Company Name: Oregon Scientific, Inc.

Address:19861 SW 95th Place, Tualatain, Oregon 97062, USA

Telephone Number:1-800-853-8883

Name and model number of the product: Multi-Channel in-out Cablefree Thermo-Hygrometer BHGR618

CAUTION

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— Due to printing limitation, the displays shown in this manual may differ from the actual display.

— The contents of this manual may not be reproduced without the permission of the manufacturer.

CUSTOMER ASSISTANCE

Should you require assistance regarding this product and its operation, please contact our customer care department at 800-853-8883 or via email at helpme@oscientific.com.

WARRANTY

This product is warranted to be free of manufacturing defects for a period of 1 year from date of retail purchase. Defective product should be directed to the place of retail purchase for exchange. Should this not be possible, contact our customer care department for assistance and a return material authorization. No returns may be made without a return authorization. Please retail your retail receipt as you may be asked to provide a copy of it for proff of date purchased.

This warranty does not cover product subjected to abuse, misuse, accidental damage or tampering.

WIRELESS RAIN GAUGE

MODEL: BHR616

USER'S MANUAL

INTRODUCTION

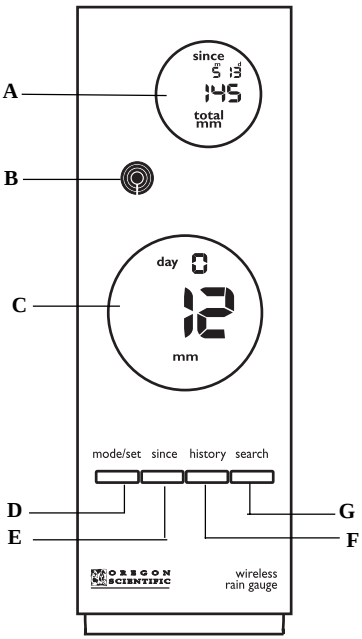
Congratulations on purchasing the BHR616 Wireless Rain Guage.

Enclosed with this package is one (1) main display unit and one (1) remote rain collector.

The rain gauge is equipped with the following features and functions:

- Daily and total rainfall display
- Nine-day rainfall recall history
- Easy wireless installation

FEATURES & KEY CONFIGURATION : MAIN UNIT



A. Upper Window

- Displays the total rainfall, clock and date.

B. RF Signal Indicator

- Indicates the signal-receiving status of the unit

C. Lower Window

- Displays the rainfall history

D. MODE/SET BUTTON

- Switches between the clock and calendar in normal mode
- Press and hold to enter the setting mode

E. SINCE BUTTON

- Displays the start day for total rainfall
- Press and hold to clear the total and current rainfall and to reset the start date

F. HISTORY BUTTON

- Displays the rainfall history in normal mode
- Advances digits in setting mode.

G. SEARCH BUTTON

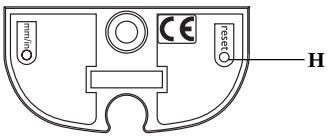
- Initiates a search for the rain gauge sensor

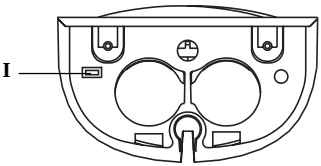
H. RESET BUTTON

- Returns all settings to their original default values

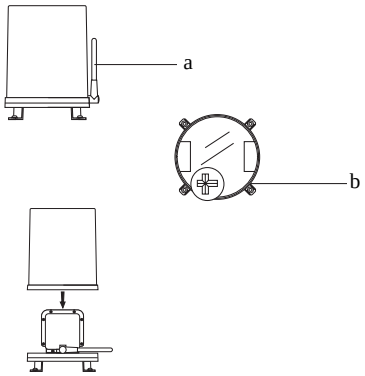
I. [IN/MM] SWITCH

- Select rainfall measurement in inches or millimeters





RAIN COLLECTOR: FEATURES



a. Antenna

-Transmits signal to main unit

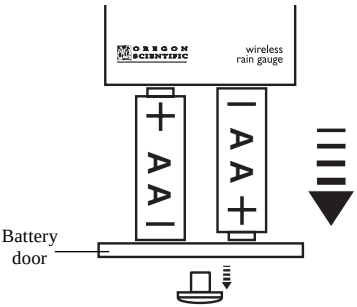
b. Cross

- To level the rain collector

BATTERY INSTALLATION: MAIN UNIT

The main unit uses 2 UM-3 or AA alkaline batteries.

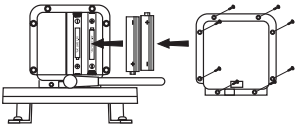
1. Unscrew the battery door at the bottom of the unit.
2. Remove the battery door and insert batteries in accordance with the polarities as indicated.
3. Select the display unit by the [IN/MM] switch.
4. Replace the battery door and fasten the screw.



BATTERY INSTALLATION & SETTING UP: RAIN COLLECTOR

The Rain Collector uses 2 UM-3 or AA alkaine batteries.

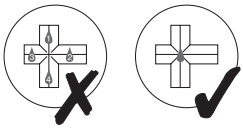
1. Remove the screws on the Rain collector as indicated in the diagram and insert the batteries in accordance with the polarities shown.



2. Remove the fiber tape from the Rain Collector assembly.

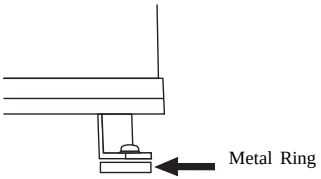
3. Position the main unit and rain collector within effective range of each other (up to 100 feet).

4. Place the rain collector on a level surface. Add a few drops of water; if the water collects at the center of the cross, the collector is level.



Not Level Level

5. If collector is not level, rotate the metal ring(s) on the feet of the collector to adjust and level.



6. Press the [RESET] button on the main unit to initiate operation.
7. Press [SINCE] to display the default start date. Press and hold to reset the start date to current date.

LOW BATTERY WARNING

There are two low-battery indicators **[ ]**. The indicator for the rain collection unit is shown as " **[ ]** out", and the indicator for the main unit is shown as **[ ]**. Replace the batteries immediately when the respective indicator lights up.

Note : Every time the batteries in the main unit are changed, it is necessary to repeat installation steps 6 through 7 prior to use.

SETTING THE CLOCK & CALENDAR

1. Press and hold the MODE/SET button for 2 seconds.
2. Choose the 12- or 24-hour display format by pressing the HISTORY button. Press the MODE/SET button to confirm.
3. Press and hold the MODE/SET button again. This time the Clock will be displayed and the Hour will be flashing.
4. Press the HISTORY button once to increase its value by one. Press the MODE/SET button to confirm its value.
5. The Minute will then be flashing. Repeat (4) to set the minute.
6. The calendar will now be displayed. Press and hold the MODE/SET button for 2 seconds. The month will be flashing. Repeat (4) again to set the current month, day and calen dar display format (mm:dd or dd:mm).
7. After setting all values, the clock will be displayed.
8. To display the calendar, press the MODE/SET button twice.
9. To display the clock again, press the MODE/SET button twice.

TOTAL RAINFALL

The total rainfall is displayed on the top window of the LCD display. Upon initial activation, the rainfall amount will be displayed in millimeters. Use the [IN/MM] switch to select between inches and millimeters.

To display the start date of the record, press [SINCE] once. The date will appear on top of the LCD screen. To clear the record, hold [SINCE] for two seconds and the current date will be set as the start date. Note that this will also clear the total and current rainfall.

RAINFALL HISTORY

The rainfall history is displayed on the bottom window of the LCD display. Zero (0) indicates the record for the current day. Records for previous days are shown with a minus (-) sign; for example : (-1) is the record for the previous day and (-2) would be the record for two days preceding the current day. Press the [History] button to scan the records of each day. A total of 9 day's rainfall history can be recorded and displayed.

To clear the current day rainfall, hold [SINCE] for two seconds. Note that this will also clear the total rainfall record and start date of the record.

HOW TO READ THE RF SIGNAL INDICATOR

The RF signal indicator shows the signal-receiving status of the main unit. There are three possible forms:

The unit is in searching mode.	
Transmission data are securely registered.	
No signals.	

INTERRUPTED SIGNALS

The success of wireless data transmission may vary and is directly related to the positioning of the remote rain collector and the environmental factors of that location. Should there be difficulty in data transmission or should the main unit display go blank, press [SEARCH] to initiate a search signal between the main unit and the Rain Collector unit.

If main unit remains blank verify that:

- The remote rain collector is still in place.
- The batteries of both the main unit and rain collector are good. Replace if necessary.
- The transmission is within range and path is clear of obstacles and interference. Shorten the distance if necessary.

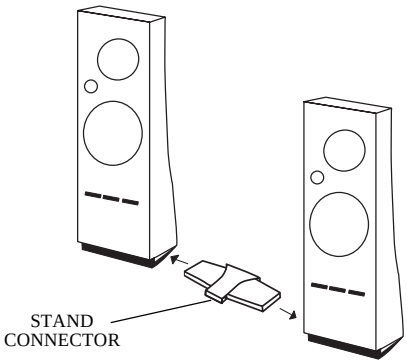
Then press [SEARCH] again.

THE RESET BUTTON

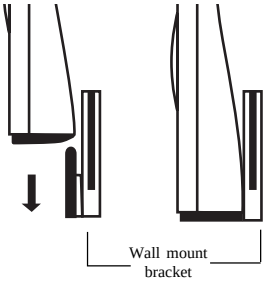
To reset the main unit, press the Reset button using a blunt stylus to hold down the button. All main unit settings will return to their original default values.

TABLE STANDING OR WALL MOUNTING

Table-Standing :
Your unit comes with stand connector for connecting it to other modular units.

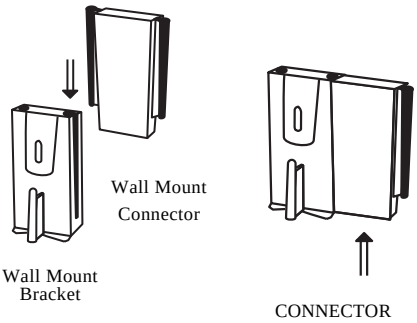


Wall-mounting:

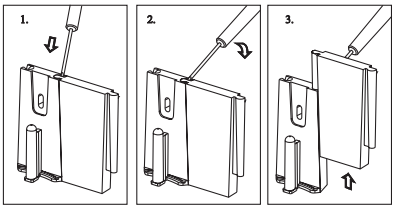


Connector:

Use wall-mount connector to align with other wall-mount bracket if necessary.



Un-install the brackets:



MAINTENANCE

When handled properly, this unit is engineered to give you years of satisfactory service. Here are a few product care instructions:

1. Do not immerse the unit in water. If the unit comes in contact with water, dry it immediately with a soft lint-free cloth.
2. Do not clean the unit with abrasive or corrosive materials. Abrasive cleaning agents may scratch the plastic parts and corrode the electronic circuit.
3. Do not subject the unit to excessive: force, shock, dust, temperature, or humidity. Such treatment may result in malfunction, a shorter electronic life span, damaged batteries, or distorted parts.
4. Do not tamper with the unit's internal components. Doing so will terminate the unit's warranty and may cause damage. The unit contains no user-serviceable parts.
5. Only use new batteries as specified in this instruction manual. Do not mix new and old batteries as the old batteries may leak.
6. Read this instruction manual thoroughly before operating the unit.

SPECIFICATIONS

Main unit

Proposed Operating Range	: -5°C to +50°C (23.0°F to 122.0°F)
Display rainfall range (total)	: 0 – 25,400 mm (0 - 999.99 inch)
Display rainfall range (history / daily)	: 0 – 2,540 mm (0 - 99.99 inch)
Rainfall resolution	: 1 mm (0.04 inch)

Remote Rain Collector

Proposed operating range	: -20° C to +60°C (-4° F to 140°C)

General

RF Transmission Frequency	: 433 MHz
RF Transmission Range	: maximum 100 feet
Transmission Cycle	: 50 sec

Power

Main unit	: 2 pcs UM-3 or "AA" 1.5V alkaline battery
Rain Collector unit	: 2 pcs UM-3 or "AA" 1.5V alkaline battery

Weight

Main unit	: 4.7 ounces
Rain Collector unit	: 8.77 ounces

Dimensions

Main unit	: 6.54" x 2.28" x 1.26"
Rain Collector unit	: Dia 4.53" x 5.71"

NOTE ON COMPLIANCE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operations.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC :

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ☐ Reorient or relocate the receiving antenna.
- ☐ Increase the separation between the equipment and receiver.
- ☐ Connect the equipment into an outlet on a circuit different from that of the receiver which the receiver is needed.
- ☐ Consult the dealer of an experienced radio/TV technician for help.

Company Name: Oregon Scientific, Inc.

Address:19861 SW 95th Place, Tualatain, Oregon 97062, USA

Telephone Number:1-800-853-8883

Name and model number of the product: Wireless Rain Gauge BHR616

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WARRANTY

This product is warranted to be free of manufacturing defects for a period of 1 year from date of retail purchase. Defective product should be directed to the place of retail purchase for exchange. Should this not be possible, contact our customer care department for assistance and a return material authorization. No returns may be made without a return authorization. Please retail your retail receipt as you may be asked to provide a copy of it for proff of date purchased.

This warranty does not cover product subjected to abuse, misuse, accidental damage or tampering.